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SOUTH AFRICAN NATIONAL STANDARD

Short-link steel chain (close-tolerance) for lifting appliances

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Table of changes

Change No.	Date	Scope
Amdt 1	1998	Amended to change the certification mark.
Amdt 2	2005	Amended to change the definition for "acceptable", to add new dimensions in the table on chain dimensions, to change the requirements for finishes, to correct references to tables and figures, and to update referenced standards.

Abstract

Specifies the requirements for electrically welded close-tolerance short-link steel chain ranging in size from 5,0 mm to 12,5 mm (inclusive) of grades T and V, intended for use as load chains in chain hoists and similar appliances.

Keywords

breaking load, certificates of conformity, chains, chemical composition, dimensions, elongation, hoists, lifting chains, lifting equipment, link chains, marking, mechanical components, mechanical testing, proof loading, specifications, steels, strength of materials, tensile testing.

Foreword

This South African standard was approved by National Committee StanSA TC 5120.22, *Lifting equipment*, in accordance with procedures of Standards South Africa, in compliance with annex 3 of the WTO/TBT agreement.

This edition cancels and replaces edition 1.1 (SABS 1592:1998).

A vertical line in the margin shows where the text has been technically modified by amendment No. 2.

Annex A forms an integral part of this standard. Annexes B and C are for information only.

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Short-link steel chain (close-tolerance) for lifting appliances

1 Scope

This standard specifies the requirements for electrically welded close-tolerance short-link steel chain ranging in size from 5,0 mm to 12,5 mm (inclusive) of grades T and V, intended for use as load chains in chain hoists and similar appliances.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this standard are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards can be obtained from Standards South Africa.

ISO 643, *Steels – Micrographic determination of the apparent grain size.*

ISO 7500-1, *Metallic materials – Verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Verification and calibration of the force-measuring system.*

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1

acceptable

acceptable to the authority administering this standard or to the parties concluding the purchase contract, as relevant

Amdt 2

3.2

breaking strength

F_m

when a chain is subjected to a static tensile test, the maximum force that the chain can withstand before destruction

3.3

chain size

d_n

the nominal diameter of the steel wire or bar from which a chain is made